## What Is Claimed Is:

Sus	A method for replacing an attachment to an email message with a
2	reference to a location of the attachment, comprising:
3	receiving the email message;
4	examining the email message to determine if the email message includes
5	an attachment; and
6	if the email message includes the attachment,
7	storing the attachment at a location on a communication
8	network from which the attachment can be retrieved,
9	modifying the email message by replacing the attachment
10	with a reference specifying the location of the attachment on the
11	communication network, and
12	sending the modified email message to a recipient of the
13	email message.
1	2. The method of claim 1, further comprising:
2	receiving the modified email message at the recipient; and
3	using the reference spectfying the location of the attachment to retrieve the
4	attachment across the communication network.
1	3. The method of claim 2, wherein retrieving the attachment includes
2	authenticating the recipient to a computer system upon which the attachment is
3	stored.
1	4. The method of claim 1, wherein receiving the email message
2	includes receiving the email message at one of,
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<b>,</b> .	3	application residing on a computer system belonging to a sender of the
4	4	email message;
:	5	an mail server through which the email message is sent;
(	6	a firewall that protects at least one trusted computer system from
,	7	communications across the communication network; and
:	8	a gateway that converts the email message from a first format to a second
	9	format.
	1	5. The method of claim 1, further comprising allowing the attachmen
2	2	to be updated at the location on the communication network.
	1	6. The method of claim 1, further comprising deleting the attachment
2	2	from the location on the communication network after at least one of:
	3	an expiration of a time period;
4	4	sending a notification to recipients of the email message that the
:	5	attachment is to be deleted;
(	6	receiving a notification hat all recipients of the email message have
,	7	retrieved the attachment;
;	8	receiving a notification that all recipients of the email message have
9	9	deleted the email message;
10	0	receiving a command to delete the attachment from a sender of the email
1	1	message; and
12	2	storing the attachment to archival storage.
	1	7. The method of claim 1, wherein the communication network
2	2	includes at least one of:
	3	a computer network; and

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a telephone network.

1	8. The method of claim 1, wherein if the email message includes the
2	attachment, the method further comprises:
3	asking a sender of the email message whether to replace the attachment
4	with the reference specifying the location of the attachment; and
5	replacing the attachment only if the sender agrees to replace the
6	attachment.
1	9. The method of claim 1, wherein the attachment is a file.
1	10. The method of claim 1, wherein the reference specifying the
2	location of the attachment includes a uniform resource locator (URL).
1	11. A computer readable storage medium storing instructions that
2	when executed by a computer cause the computer to perform a method for
3	replacing an attachment to an email message with a reference to a location of the
4	attachment, the method comprising:
5	receiving the email message;
6	examining the email message to determine if the email message includes
7	an attachment; and
8	if the email message includes the attachment,
9	storing the attachment at a location on a communication
10	network from which the attachment can be retrieved,
11	modifying the email message by replacing the attachment
12	with a reference specifying the location of the attachment on the
13	communication network, and

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14	sending the modified email message to a recipient of the
15	email message.
1	12. The computer-readable storage medium of claim 11, wherein the
2	method further comprises:
3	receiving the modified email message at the recipient; and
4	using the reference specifying the location of the attachment to retrieve the
5	attachment across the communication network.
1	13. The computer-readable storage medium of claim 12, wherein
2	retrieving the attachment includes authenticating the recipient to a computer
3	system upon which the attachment is stored.
1	14. The computer-readable storage medium of claim 11, wherein
2	receiving the email message includes receiving the email message at one of,
3	an application residing on a computer system belonging to a sender of the
4	email message;
5	an email server through which the email message is sent;
6	a firewall that protects at least one trusted computer system from
7	communications across the communication network; and
8	a gateway that converts the email message from a first format to a second
9	format.
1	15. The computer-readable storage medium of claim 11, wherein the
2	method further comprises allowing the attachment to be updated at the location on
3	the communication network.

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1	16. The computer-readable storage medium of claim 11, wherein the
2	method further comprises deleting the attachment from the location on the
3	communication network after at least one of:
4	an expiration of a time period;
5	sending a notification to recipients of the email message that the
6	attachment is to be deleted;
7	receiving a potification that all recipients of the email message have
8	retrieved the attachment;
9	receiving a notification that all recipients of the email message have
10	deleted the email message;
11	receiving a command to delete the attachment from a sender of the email
12	message; and
13	storing the attachment to archival storage.
1	17. The computer-readable storage medium of claim 11, wherein the
2	communication network includes at least one of:
3	a computer network; and
4	a telephone network.
1	18. The computer-readable storage medium of claim 11, wherein if the
2	email message includes the attachment, the method further comprises:
3	asking a sender of the email message whether to replace the attachment
4	with the reference specifying the location of the attachment; and
5	replacing the attachment only if the sender agrees to replace the
6	attachment.
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1	The computer-readable storage medium of claim 11, wherein the
2	attachment is a file.
1	20. The computer-readable storage medium of claim 11, wherein the
2	reference specifying the location of the attachment includes a uniform resource
3	locator (URL).
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1	21. An apparatus that replaces an attachment to an email message with
2	a reference to a location of the attachment, comprising:
3	an examination mechanism that examines the email message to determine
4	if the email message includes an attachment; and
5	a replacement mechanism, wherein if the email message includes the
6	attachment the replacement mechanism is configured to,
7	store the attachment at a location on a communication
8	network from which the attachment can be retrieved,
9	modify the email message by replacing the attachment with
10	a reference specifying the location of the attachment on the
11	communication network, and
12	send the modified email message to a recipient of the email
13	message.
1	22. The apparatus of claim 21 further comprising:
2	a second receiving mechanism at the recipient that is configured to receive
3	the modified email message; and
4	a retrieval mechanism at the recipient that is configured to use the
5	reference specifying the location of the attachment to retrieve the attachment
6	across the communication network.

طبه	The apparatus of claim 22, wherein the retrieval mechanism is
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2	configured to authenticate the recipient to a computer system upon which the
3	attachment is stored.
1	24. The apparatus of claim 21, wherein the replacement mechanism is
2	located on one of,
3	an application residing on a computer system belonging to a sender of the
4	email message;
5	an email server through which the email message is sent;
6	a firewall that protects at least one trusted computer system from
7	communications across the communication network; and
8	a gateway that converts the email message from a first format to a second
9	format.
1	25. The apparatus of claim 21, further comprising an updating
2	mechanism that is configured to allow the attachment to be updated at the location
3	on the communication network.
1	26. The apparatus of claim 21, further comprising a deletion
2	mechanism that is configured to delete the attachment from the location on the
3	communication network after at least one of:
4	an expiration of a time period;
5	sending a notification to recipients of the email message that the
6	attachment is to be deleted;
7	receiving a notification that all recipients of the email message have
8	retrieved the attachment;
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Sub	A	receiving a notification that all recipients of the email message have
	2	deleted the email message;
	3	receiving a command to delete the attachment from a sender of the email
,	4	message; and
	5	storing the attachment to archival storage.
	1	27. The apparatus of claim 21, wherein the communication network
:	2	includes at least one of:
	3	a computer network; and
•	4	a telephone network.
	1	28. The apparatus of claim 21, wherein if the email message includes
:	2	the attachment, the replacement mechanism is configured to:
	3	ask a sender of the email message whether to replace the attachment with
•	4	the reference specifying the location of the attachment; and to
;	5	replace the attachment only if the sender agrees to replace the attachment.
	1	29. The apparatus of claim 21, wherein the attachment is a file.
	1	30. The apparatus of claim 21, wherein the reference specifying the

location of the attachment includes a uniform resource locator (URL).